

M 7.6, Tonga

Origin Time: 2023-05-10 16:02:00 UTC (Wed 04:02:00 local)  
Location: 15.6278° S 174.4925° W Depth: 210.0 km  
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

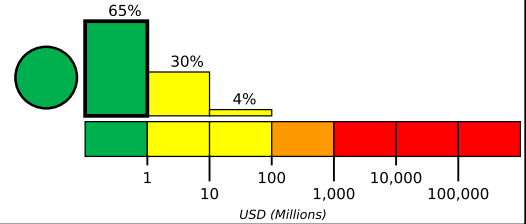
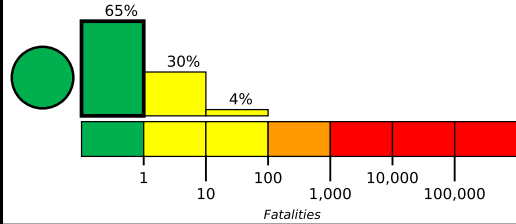
PAGER Version 5

Created: 4 weeks, 0 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

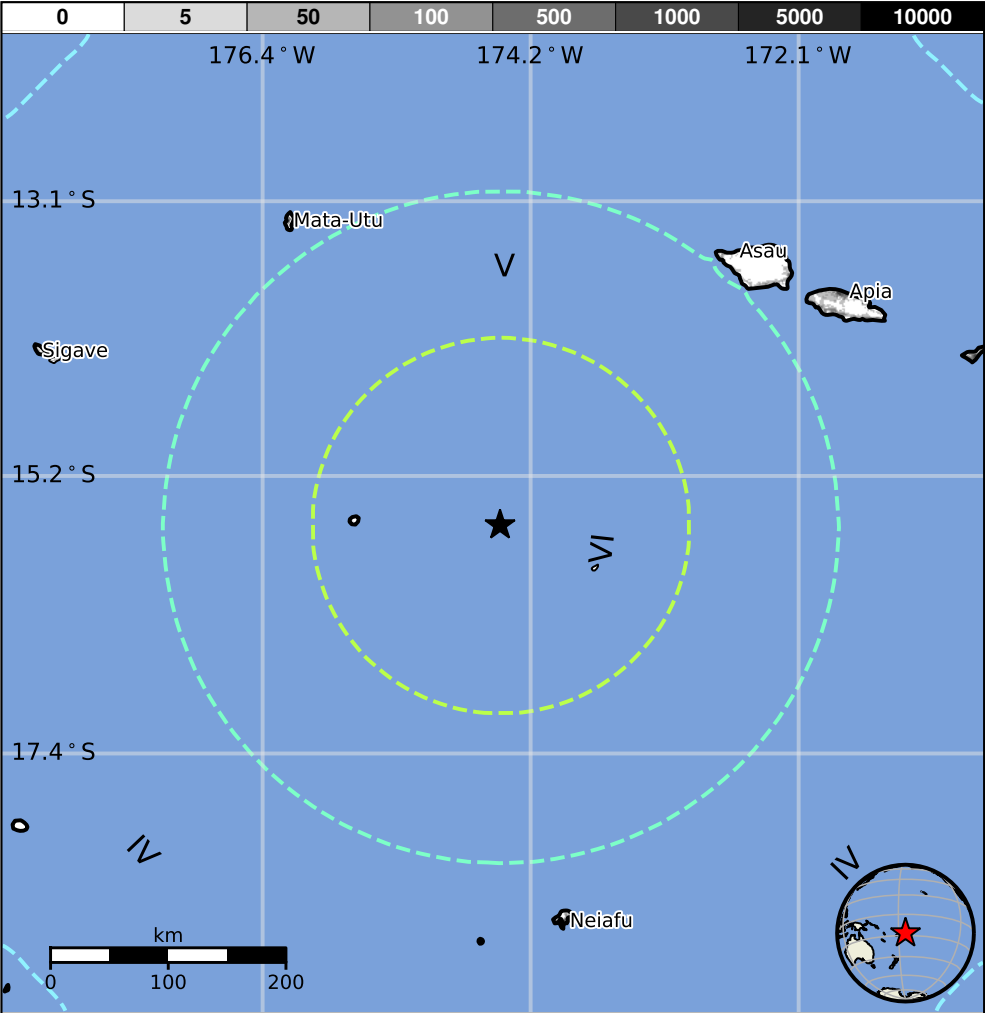


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	—*	278k*	4k	1k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-10-06	359	7.2	IV(19k)	—
1999-01-05	324	5.9	VII(15k)	—
2006-09-28	287	6.9	IV(197k)	0

Recent earthquakes in this area have caused secondary hazards such as tsunamis that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Hihifo	1k
IV	Gataivai	1k
IV	Asau	7k
IV	Vailoa	1k
IV	Mata-Utu	1k
IV	Leulumoega	1k
IV	Mulifanua	5k
IV	Neiafu	4k
IV	Apia	40k
IV	Lufilufi	1k
IV	Pago Pago	12k